PHOTOMETRICS REPORT

STRIKE 4



CHAUVET PROFESSIONAL

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Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

Photometric Report

Strike4: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 20147 lm
Peak Intensity: 21255 cd
Illuminance @ 5m: 850 lux
Fixture Efficacy: 67 lm/W

Optical

Horizontal Beam Angle (50%): 59.6°
Vertical Beam Angle (50%): 59.6°
Horizontal Field Angle (10%): 86.3°
Vertical Field Angle (10%): 86.3°
Horizontal Cutoff Angle (3%): 98.5°
Vertical Cutoff Angle (3%): 98.5°

Conditions

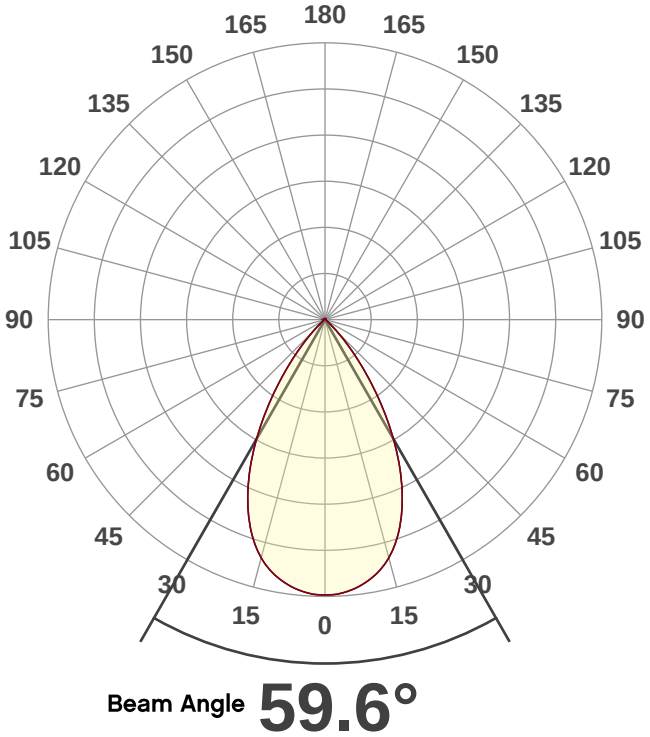
AC Supply: 118 V, 60 Hz
Power: 303.13 W
Current: 2.58 A
Power Factor: 0.99



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/25/2020 to LM-63-2002 Standards.

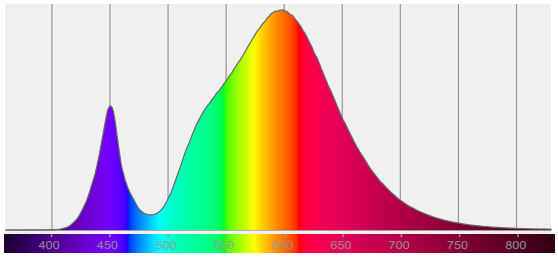
Overall Measurement

Angular Beam Distribution

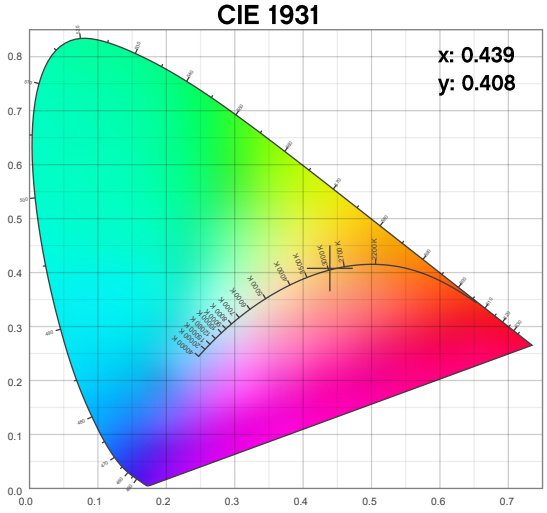


Beam Angle **59.6°**

Spectral Distribution



CIE 1931

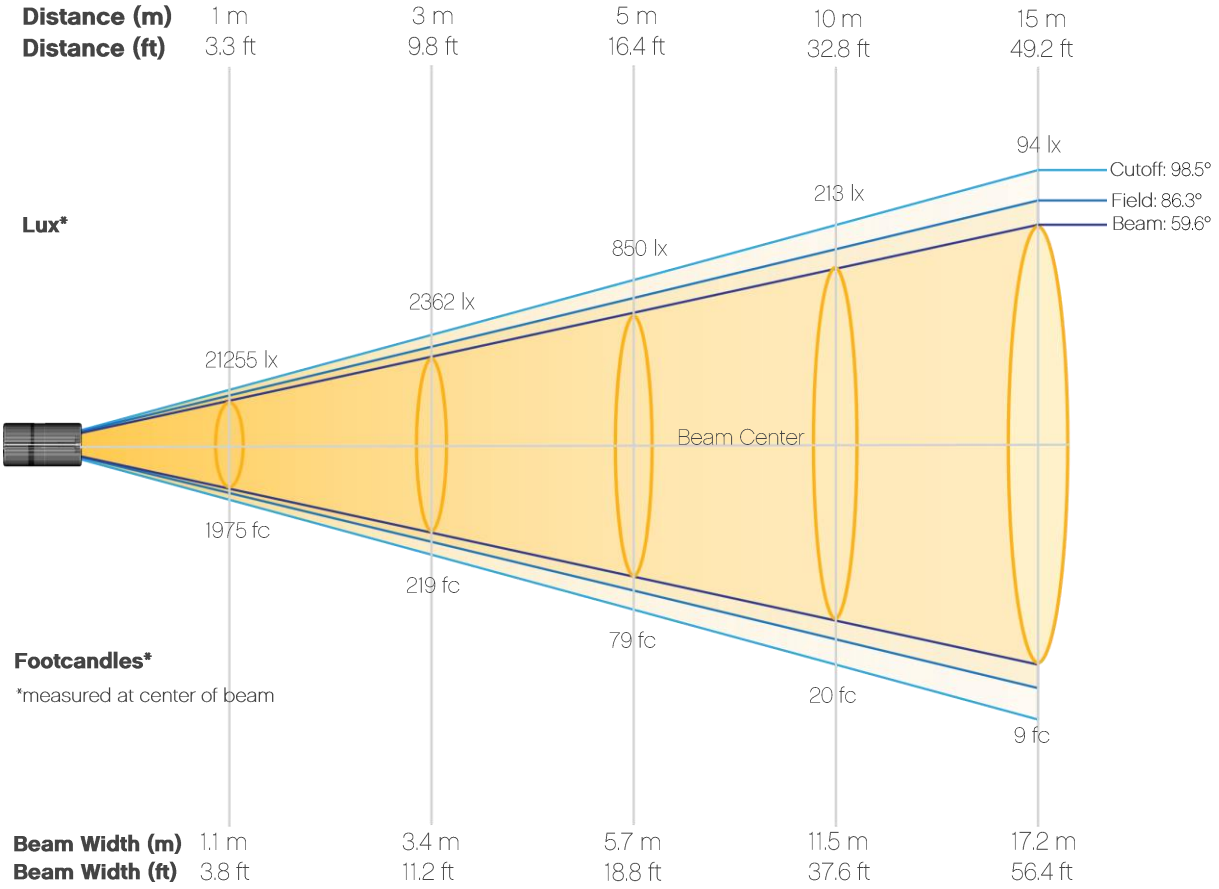


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Photometric Report

Strike4: Standard Optics, Full Power

Beam Details



Beam Illuminances from 1-20m (3.3-65.6ft)

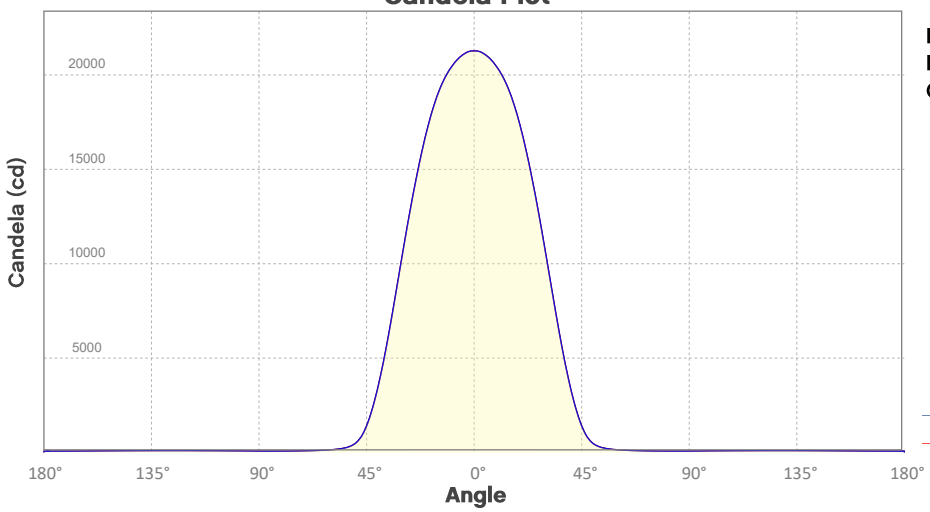
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	21255	5314	2362	1328	850	590	434	332	262	213
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	176	148	126	108	94	83	74	66	59	53
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1975	494	219	123	79	55	40	31	24	20
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	16	14	12	10	9	8	7	6	5	5

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Photometric Report

Strike4: Standard Optics, Full Power

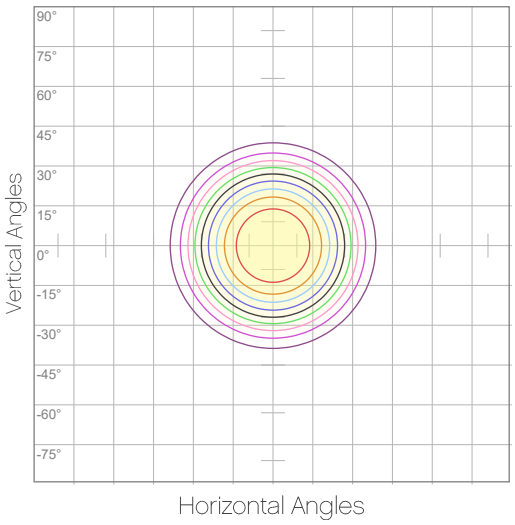
Candela Plot



Beam Angle (50%): 59.6°
Field Angle (10%): 86.3°
Cutoff Angle (3%): 98.5°

Horizontal Distribution
Vertical Distribution

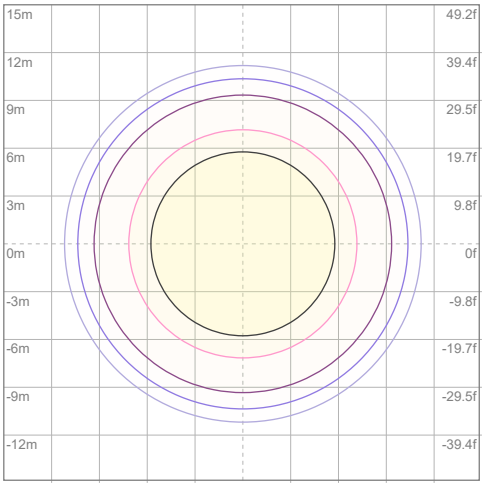
Polar Diagrams



iso-candela Diagram

10%	2125 cd
20%	4251 cd
30%	6376 cd
40%	8502 cd
50%	10627 cd
60%	12753 cd
70%	14878 cd
80%	17004 cd
90%	19129 cd

Conditions:
Number of c-planes: 8
Candela at center: 21255 cd



iso-illuminance Diagram

3%	6.38 lx
5%	10.6 lx
10%	21.3 lx
30%	63.8 lx
50%	106 lx

Conditions:
Number of c-planes: 8
Lux at center: 213 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

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Chromaticity Report

Strike4: Full Power

Report Summary

Measurements

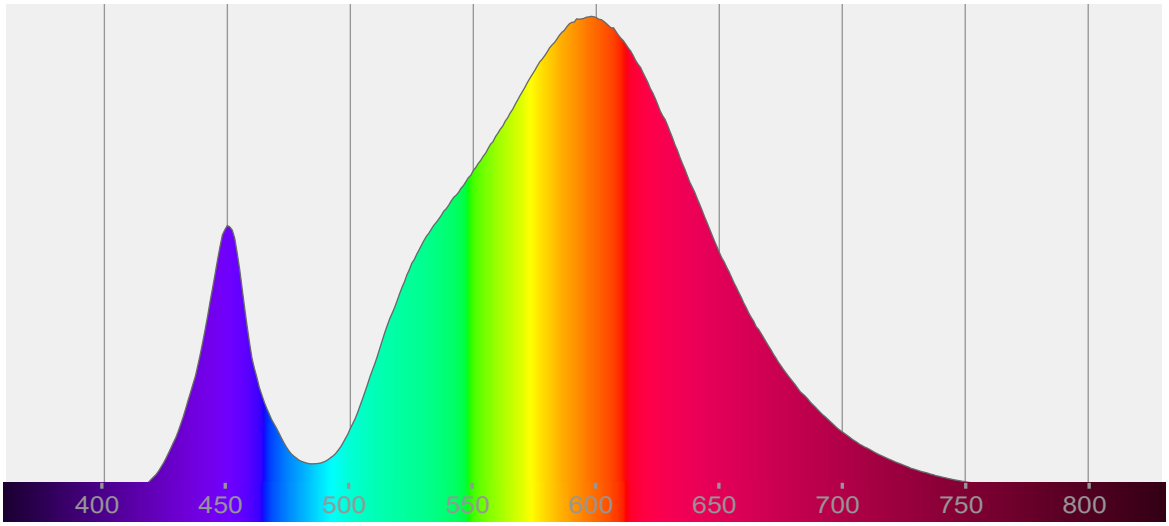
Total Lumens: 20147 lm
Peak Intensity: 21255 cd
Fixture Efficacy: 67 lm/W

Correlated Color Temperature: 2998K
Δuv: 0.0012

CRI: 72.2 CRI R9 Value: -23.0
CQS: 71.6
TLCI: 46
TM-30-18 Rf: 74.3
TM-30-18 Rg: 95.6
1st Dominant Wavelength: 598 nM
2nd Dominant Wavelength: 450 nM



Spectral Distribution



Tested Color

2998 K
CIE 1931 Coordinates:
X: 0.439 Y: 0.408

Color Temperature

2998 K

Light Quality

CRI: 72.2

Notes:

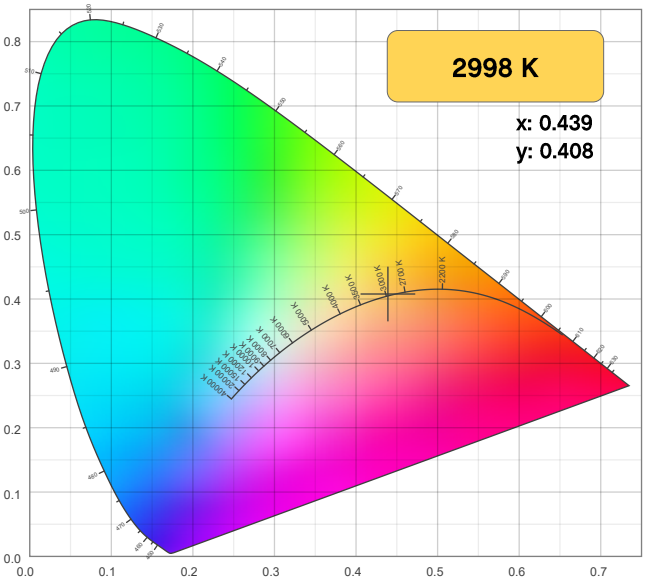
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Chromaticity Report

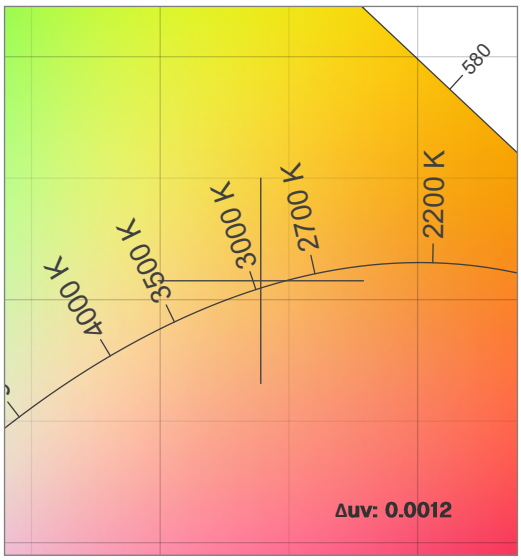
Strike4: Full Power

Chromaticity

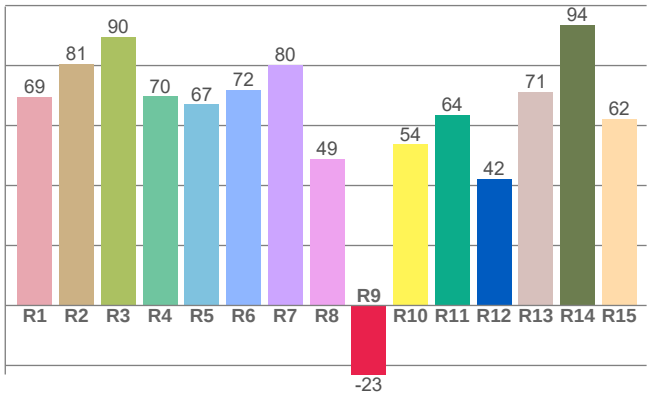
CIE 1931



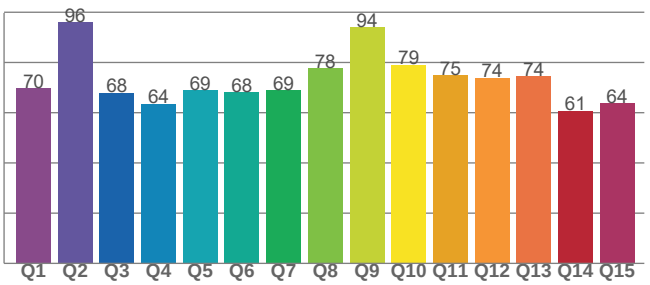
CIE 1931 - Zoom



CRI: 72.2 (R1-R8)



CQS: 71.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2998 K	0.439	0.408

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.408	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.2	-23.0	71.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
46	74.3	95.6

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Chromaticity Report

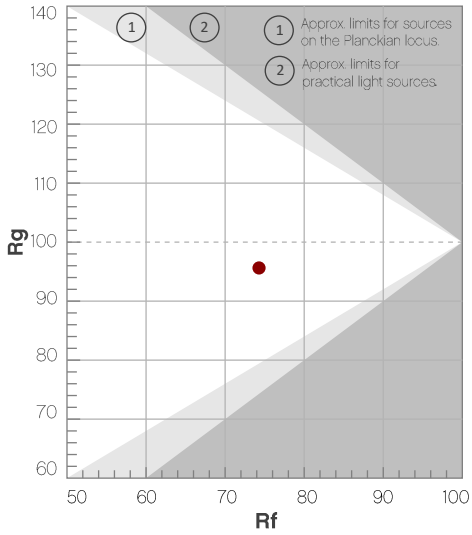
Strike4: Full Power

TM-30-18 Details

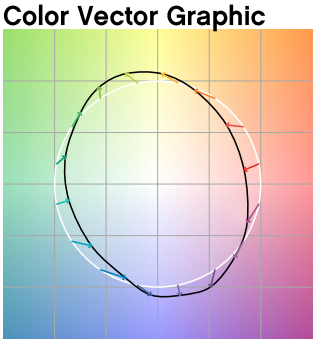
Rf 74.3
Fidelity Index (Rg)

Rg 95.6
Gamut Index (Rg)

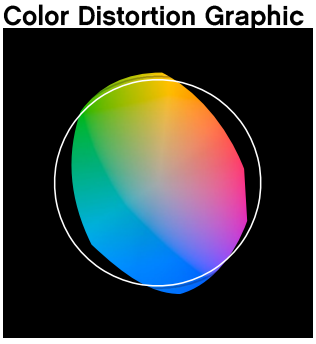
Hue Bin	R_f	Chroma Shift	Hue Shift
1	72	-15%	-3%
2	71	-13%	11%
3	61	-4%	20%
4	74	6%	17%
5	82	11%	10%
6	83	10%	-5%
7	75	1%	-16%
8	82	-7%	-9%
9	79	-13%	-1%
10	70	-13%	14%
11	65	-7%	25%
12	73	7%	15%
13	84	10%	0%
14	78	11%	-13%
15	72	1%	-18%
16	74	-8%	-19%



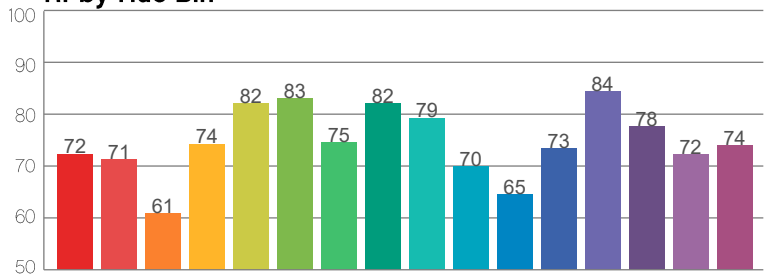
Color Vector Graphic



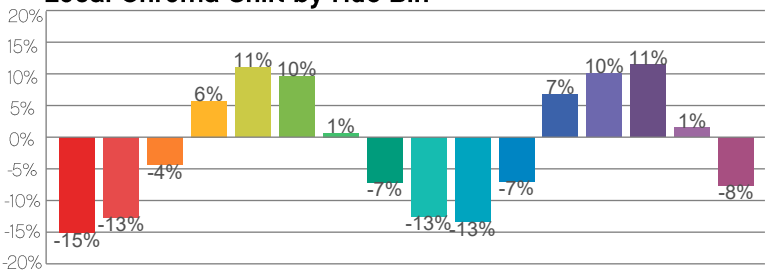
Color Distortion Graphic



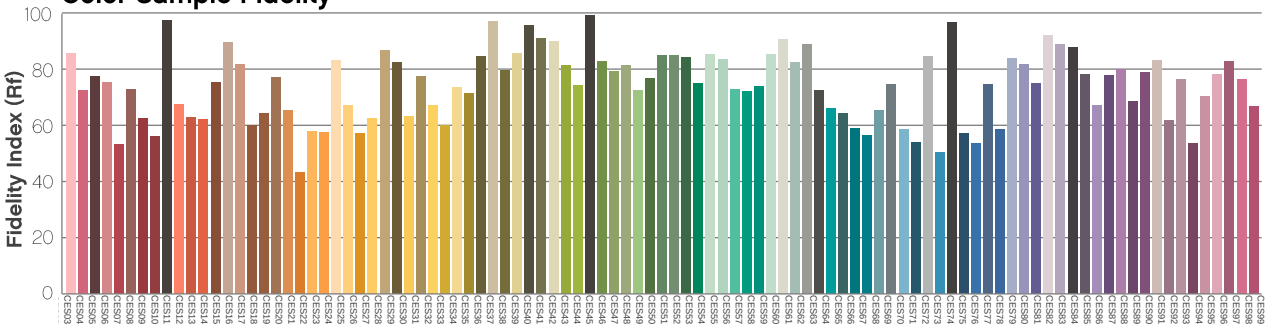
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.